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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2005/0007349 A1****Vakil et al.**(43) **Pub. Date: Jan. 13, 2005**(54) **TOUCH SCREEN ASSEMBLY AND DISPLAY
FOR AN ELECTRONIC DEVICE**(52) **U.S. Cl. 345/173**(76) **Inventors: Bharat N. Vakil**, Coral Springs, FL
(US); **James L. Tracy**, Coral Springs,
FL (US)(57) **ABSTRACT**

Correspondence Address:

Scott M. Garrett**Motorola, Inc.****Law Department****8000 West Sunrise Boulevard****Fort Lauderdale, FL 33322 (US)**

A touch screen assembly includes a first outer layer (102) and a second outer layer (110) separated by a separator layer (118). The first and second outer layers are transparent, and the separator layer has openings (120) at button locations where buttons will be defined. On each of the outer layers is a layer of transparent conductor (104, 112). On the first outer layer the transparent conductor is in the form of a contiguous trace or path. The touch screen assembly is placed on a display element (203) and images displayed on the display element can be seen through the touch screen assembly. Images such as characters are displayed at button locations, and when a user presses on one of the images the conductive layers on the first and second outer layers of the touch screen assembly come into contact.

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